

Friday, June 23, 2017 1:30:34 PM

Page 1

Stop ***NB2***

**Insp.
Stamp**

JUN 26 2017

9-89

0.00

DC

Doc.Control -USB or Paperwork

Memo

0.00

Photocopy bluefile & type labels per PPP D139-799-039
CHG002

DAS
28
9-89

JUL 25 2017

110

Pick Kit

0.00

Packaging

Memo

0.00

Packaging

DAS
6
9-89

26707

D-37 8-88

120

QC4- 100% Inspect kits for completeness

0.03

QC

Memo

0.12

Quality Control

DAS
28
9-89

JUL 25 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Work Order ID 163197

Friday, June 23, 2017 1:30:34 PM

163197

Page 2

Item ID: D139-799-039

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: AW139 Easy Access Engine Oil Drain

Start Date: 7/3/2017 Start Qty: 4.00 ***4***

Cust Item ID:

Required Date: 7/4/2017 Req'd Qty: 4.00 ***4***

Customer:

Reference: SCHEDULED/C

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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130

0.00

130

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D139-799-039
Location: FG019

4	DAS 28 9-89	JUL 2 5 2017
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140

QC21- Final Inspection - Work Order Release

0.10

140

QC

Memo

0.40

Quality Control

	DAS 21 9-89	JUL 2 6 2017
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	DAS 21 9-89	JUL 2 6 2017
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DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
10000000								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Page 1

Work Order ID: 163197

163197

Parent Item: D139-799-039

D139-799-039

Parent Item Name: AW139 Easy Access Engine Oil Drain

Start Date: 7/3/2017

Required Date: 7/4/2017

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP REV:A 16.10.07 NEW ISSUE DD VERF:JFS

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D5373-11 *D5373-11* Oil Drain Line	28	Manufactured	No			110	Each	0.0000	4	162135		JUL 25 2017	DAS 6 31 9-89
D5373-7 *D5373-7* Oil Drain Line	28	Manufactured	No			110	Each	0.0000	4	162133		JUL 25 2017	DAS 6 31 9-89
D5373-9 *D5373-9* Oil Drain Line	28	Manufactured	No			110	Each	0.0000	4	162134		JUL 25 2017	DAS 6 31 9-89
D5421-041 *D5421-041* Oil Drain Hose Assembly	28	Manufactured	No			110	Each	0.0000	4	16			
D5522-041 *D5522-041* Oil Drain Valve Assembly	28	Manufactured	No			110	Each	0.0000	4	162859		JUL 25 2017	DAS 6 31 9-89
D5522-042 *D5522-042* Oil Drain Valve Assembly	28	Manufactured	No			110	Each	0.0000	4	162858		JUL 25 2017	DAS 6 31 9-89
MS27039C1-14 *MS27039C1-14* Screw	28	Purchased	No			110	Each	81.0000	4	16			

DAS
28
9-89

Location

ST277

Loc Qty

81

Loc Code

m129406

30

m130412

51

DAS
6
9-89

JUN 26 2017

DAS
31
9-89

JUL 06 2017

DAS
6
9-89

DAS
31
9-89

1207.04
5521-041

per kit
qty 4

Batch: 163643

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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							Lead hand / Supervisor Approval Verification																		
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Picklist Print

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Page 2

Work Order ID: 163197

163197

Parent Item: D139-799-039

D139-799-039

Parent Item Name: AW139 Easy Access Engine Oil Drain

Start Date: 7/3/2017

Required Date: 7/4/2017

Start Qty: 4.00

Required Qty: 4.00

D5370-1 Manufactured No

110 Each

17.0000

2 8

DAS

6

9-89

JUN 26 2017

D5370-1

Fitting

DAS

28

9-89

Location

Loc Qty

Loc Code

ST165

5

151824

5

ST166

12

162146

12

D5373-3

Manufactured No

110 Each

3.0000

1 4

DAS

6

9-89

JUN 26 2017

D5373-3

Oil Drain Line

DAS

28

9-89

Location

Loc Qty

Loc Code

ST212

3

151826

3

AS3208-06

Purchased No

110 Each

94.0000

2 8

DAS

6

9-89

JUN 26 2017

AS3208-06

Packing

DAS

28

9-89

Location

Loc Qty

Loc Code

ST556

94

m135884

94

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

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OTHER : _____																																																																							

Qty -035	Qty -036	Qty -037	Qty -038	Part Number	Description
X				D139-799-035	HEAVY DUTY REPLACEMENT CABIN STEP KIT LH
	X			D139-799-036	HEAVY DUTY REPLACEMENT CABIN STEP KIT RH
		X		D139-799-037	LIGHT WEIGHT REPLACEMENT CABIN STEP KIT LH
			X	D139-799-038	LIGHT WEIGHT REPLACEMENT CABIN STEP KIT RH
1				D5235-041	LH STEP ASSEMBLY
	1			D5235-042	RH STEP ASSEMBLY
		1		D5235-043	LH STEP ASSEMBLY
			1	D5235-044	RH STEP ASSEMBLY
1	1	1	1	*D5271-1	FORWARD AIRCRAFT FITTING
1		1		*D5271-3	LH AFT FITTING
	1		1	*D5271-4	RH AFT FITTING
1	1	1	1	*D5272-1	FORWARD TUBE
1	1	1	1	*D5272-3	AFT TUBE
2	2			*D5273-041	END FITTING ASSEMBLY
		2	2	*D5273-043	END FITTING ASSEMBLY
1	1			*D5274-1	STEP EXTRUSION
		1	1	*D5274-3	STEP EXTRUSION
14	14	14	14	*D5291-041	RADIUS BLOCK ASSEMBLY
12	12	10	10	*MS24694-S50	SCREW
14	14	14	14	*MS24694-S98	SCREW
28	28	28	28	*MS20426AD4-6	RIVET

*Part of D5235-041/-042/-043/-044 assembly, above.

Qty -039	Part Number	Description
X	D139-799-039	ENGINE OIL DRAIN KIT
2	D5370-1	FITTING
1	D5373-3	OIL DRAIN LINE
1	D5373-7	OIL DRAIN LINE
1	D5373-9	OIL DRAIN LINE
1	D5373-11	OIL DRAIN LINE
4	D5521-041	OIL DRAIN HOSE ASSY
1	D5522-041	OIL DRAIN VALVE ASSY
1	D5522-042	OIL DRAIN VALVE ASSY
2	AS3208-06	PACKING
4	MS27039C1-14	SCREW

Work Order ID 163197

Friday, June 23, 2017 1:30:34 PM

163197

Page 1

Item ID: D139-799-039

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: AW139 Easy Access Engine Oil Drain

Start Date: 7/3/2017 Start Qty: 4.00

4

Cust Item ID:

Required Date: 7/4/2017 Req'd Qty: 4.00

4

Customer:

Reference: SCHEDULED/C

Approvals:

Process Plan:

Date:

JUN 23 2017

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
IIN-D139-799	M	JUN 26 2017							
100	Document Control	0.00							
100									
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP D139-799-039 CHG002								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.03							
120									
QC	Memo	0.12							
Quality Control									

DAS
5
9-89

JUN 26 2017

United States of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

Number SR02138SE

This certificate, issued to

Dart Aerospace USA, Inc.
190 S. Danebo Ave.
Eugene, OR 97402

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 29 of the Federal Aviation Regulations.

Original Product—Type Certificate Number: R00002RD
Make: Agusta
Model: AB139, AW139

Description of the Type Design Change: Installation of Dart D139-799 Maintenance Kits fabricated in accordance with Dart Master Document List MDL-D139-799, Revision C, dated June 6, 2010, or later Federal Aviation Administration (FAA) approved revision, Installed in accordance with Dart Installation Instructions IIN-D139-799, Revision D, dated June 10, 2011, or later FAA-approved revision, and Maintained in accordance with Dart Instructions for Continued Airworthiness ICA-D139-799, Revision 3, dated May 5, 2011, or later FAA-accepted revision.

Limitations and Conditions: Approval of this change in type design applies to the rotorcraft listed above only. This approval should not be extended to other rotorcraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the relationship between this change and any of the other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of the rotorcraft. A copy of this certificate and the ICA must be maintained as part of the permanent records of the modified rotorcraft.

If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: October 5, 2010

Date reissued: October 28, 2015

Date of issuance: July 18, 2011

Date amended:



By direction of the Administrator

[Signature]
(Signature)

[Title] Manager, Seattle Aircraft Certification Office
(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.